TPMC-8T

Isys i/O™ 8.4" TableTop WiFi Touchpanel

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Crestron's Isys i/O TPMC-8T is a compact tabletop touchpanel featuring the Windows® XP Embedded OS to deliver a versatile control solution with blazingly fast performance and native capabilities for browsing the Internet, streaming multimedia, and much more. Its fixed-tilt design features a 37 degree angle that's ideal for use at a podium, table, or counter surface to support all kinds of applications.

Isys i/O Touchpanel Graphics
A brilliant 8.4" active-matrix SVGA display and 16-bit color depth combine to produce stunning 3D graphics using DNav dynamic menu objects, dynamic graphics and text, animations, multimode objects, PNG translucency, and exclusive Synapse™ image rendering - all with astonishing speed.

Tactile Controls
An integrated 5-way thumbpad and up/down arrow buttons add quick-access and tactile response for controlling functions ranging from simple volume adjustment and channel selection to on-screen menu navigation or even pan/tilt camera control. Four additional "hard key" buttons are positioned below the touchscreen, programmable for context-sensitive menu functions. A stylus is even included for use with the on-screen keyboard, conveniently stowed in its own storage slot.

Bluetooth® Technology
Built-in Bluetooth enables the use of a wireless mouse and keyboard. Three USB 2.0 ports are also provided for connecting wired devices.

Biometric Scanner
The built-in fingerprint scanner unleashes a whole new level of convenience and security, allowing individual users to be identified instantly and logged on automatically. With just the touch of a fingertip, each user can be presented with a unique graphical interface with its own set of preferences, access privileges, and even its own look through the use of touchpanel "skins".

Embedded PC
The power of Isys i/O is in its embedded PC engine, combining rock solid touchpanel performance with built-in Windows Media® Player and RealPlayer®, Internet Explorer, Adobe® Acrobat® Reader, and Microsoft Word, Excel, and PowerPoint® document viewers. While simultaneously controlling your home, boardroom, or lecture hall, the TPMC-8T provides everything needed for enjoying online music and movies, and viewing Web pages and other documents without necessitating a separate computer.

Onboard NetMeeting® and Skype™ VoIP applications enable duplex telephone, intercom, and interactive video conferencing right on the touchpanel without any dedicated wiring. New VNC Viewer support delivers enhanced cross-platform interaction with remote computers over the network or Internet, allowing access and control of desktop applications with live presentation capability. Plus, support for Yahoo! Widgets affords an easy solution for integrating everything from calendars and clocks to stock tickers, weather forecasts, news feeds, and thousands of other fun and useful utilities.

Built on the Windows XP Embedded operating system, the TPMC-8T delivers a powerful and secure platform for touchpanel control with integrated PC capabilities. Programmatic control erases the lines

between control system and PC, allowing programmers to customize each application's behavior within the touchpanel environment to create a truly powerful and user-friendly interface.

Streaming Video
For presentation preview, surveillance, or pure entertainment, the TPMC-8T makes it easy to view security cameras, movies, and other video sources right on the touchscreen. In addition to the wide range of streaming video formats supported by its onboard media player applications, the TPMC-8T also features native support for video over IP from a variety of 3rd-party Web cameras and servers using the motion-JPEG format.

Audio Features
Its built-in microphones, stereo speakers, and headphone output support clear voice communications for VoIP and conferencing applications, or just listening to online music and videos. Customized WAV files can be loaded on the touchpanel to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.

Wi-Fi Wireless
In addition to its high-speed wired Ethernet connection, the TPMC-8T also includes built-in 802.11a/b/g Wi-Fi technology with WEP encryption, allowing for secure, high-speed 2-way wireless communications whenever a wired connection is not available. Either solution can be used to attain seamless communications with Crestron control systems, computers, digital media servers, and other IP-based devices.

> 8.4" active matrix touchscreen display

> 16-bit Isys i/O graphics | 800 x 600 resolution

> Synapse image rendering algorithm

> DNav dynamic menu objects

> Windows XP Embedded operating system

> Onboard PC applications for Web browsing, streaming media, conferencing, VoIP, and remote computer access

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> Streaming video from network cameras and servers

> Built-in microphone and stereo speakers

> 5-way thumbpad and 4 "hard key" buttons

> Includes stylus with onboard storage slot

> Built-in biometric fingerprint scanner

*> Built-in Bluetooth technology**

> Wired 10/100 Ethernet and 802.11a/b/g Wi-Fi communications

SPECIFICATIONS

Touchscreen Display

Display Type: TFT active matrix color LCD
Size: 8.4 inch (21.3 cm) diagonal
Aspect Ratio: 4:3 SVGA
Resolution: 800 x 600 pixels
Brightness: 200 nits (cd/m^2)
Contrast: 500:1
Color Depth: 18-bit, 262k colors
Response Time : Edgelit fluorescent
Viewing Angle: ±65° horizontal, +65°/-45° vertical
Touchscreen: Resistive membrane

Buttons

Hard Keys : (4) programmable pushbuttons below touchscreen
Thumbpad: (1) programmable 5-way thumbpad (4-way navigation plus center "ENTER" button)
Arrows: (2) programmable up/down pushbuttons
Power: (1) pushbutton, initiates "Power On" and "Power Down"

Biometric Scanner

AuthenTec EntrePad® 1610 fingerprint scanner;
Identifies up to 30 users by fingerprint

LED Indicators

Power: (1) Green LED, indicates touchpanel power status
Battery: (1) Green/yellow dual-color LED, not used
WiFi: (1) Green LED, indicates wireless network connection status

Memory

DDR SDRAM: 512 MB
Flash: 1 GB
Compact Flash: Accepts up to 4GB Type II CF (not included)
Maximum Project Size: 190 MB

Operating System

Microsoft® Windows® XP Embedded

Graphic Engine

Isys i/O engine, 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects; DNav dynamic menu objects; dynamic graphics; PNG translucency; full-motion (60 fps) animation; transition effects

Embedded PC Applications†

Microsoft Internet Explorer w/Macromedia® Flash® plug-in, Windows Media® Player, RealPlayer®, Axis® Media Control, Crestron MJPEG Viewer, Remote Desktop, NetMeeting®, Skype™, VNC Viewer, Java™ Runtime, DirectX®, Yahoo! Widgets support, Adobe® Acrobat® Reader, WordPad, MS Word Viewer 2003, Excel® Viewer 2003, PowerPoint® Viewer 2003

Ethernet

10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, IEEE 802.3U compliant

RF Wireless†

RF Transceiver: IEEE 802.11a/b/g Wi-Fi, 5.8 or 2.4 GHz 2-way RF, static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption
Range: 30 feet (10m) @54Mbps; range and speed vary based upon environmental conditions
Bluetooth: Bluetooth® V1.2 Class 1 built in for mouse/keyboard*
Gateway: Requires a **CEN-WAP-ABG-1G** or similar 802.11a/b/g wireless access point and Ethernet-enabled Crestron 2-Series control system

Video

Streaming/File Formats: MPEG4 & MJPEG via Axis Media Control or Crestron MJPEG Viewer, plus all formats supported by the embedded media player applications†

Audio

Hardware Features: Dual onboard microphones, built-in stereo speakers, stereo headphone output
Streaming/File Formats: As supported by the embedded media player applications
Audio Feedback (WAV): 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates
Amplification: Stereo, 1.1 Watts per channel

Connectors

USB (left side): (1) USB Type A female;
USB 2.0 port for keyboard, mouse, and computer console†
HEADPHONES (right side): (1) 3.5 mm TRS mini phone jack;
Stereo headphone output, 12mW per channel;
Minimum Impedance: 32 ohms
12V 3.5A (right side): (1) 2.5mm barrel DC power jack;
Alternate 12 Volt DC power input;
May be used instead of the rear panel +12V connector
MEMORY CARD: (1) Type II CF+ Card slot†
+12V (rear): (1) 2.5mm barrel DC power jack;
Main 12 Volt DC power input (power supply included)
LAN (rear): (1) 8-wire RJ45 with 2 LED indicators;
10BaseT/100BaseTX Ethernet port;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
USB (rear): (2) USB Type A female;
USB 2.0 ports for keyboard, mouse, and computer console†

Power Requirements

Touchpanel: 3.5 Amps @ 12 Volts DC
Universal Power Supply/Charger (included): 100~240V AC 50/60Hz

Environmental

Operating Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

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Enclosure

Injection-molded plastic and magnesium alloy case with plastic buttons

Dimensions

Height: 6.21 in (15.77 cm)
Width: 9.69 in (24.61 cm)
Depth: 8.16 in (20.71 cm)

Weight

3.11 lb (1.41 kg)

AVAILABLE ACCESSORIES

SMK-8T: Swivel Mount Kit
TPMC-8X-DS-CSK: Cable Security Kit
CEN-WAP-ABG-1G: 802.11a/b/g Wireless Access Point

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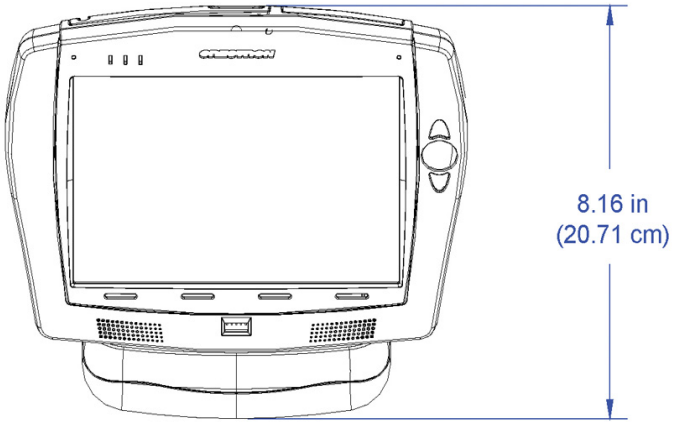

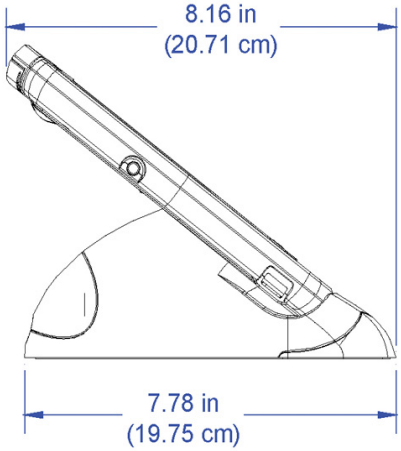

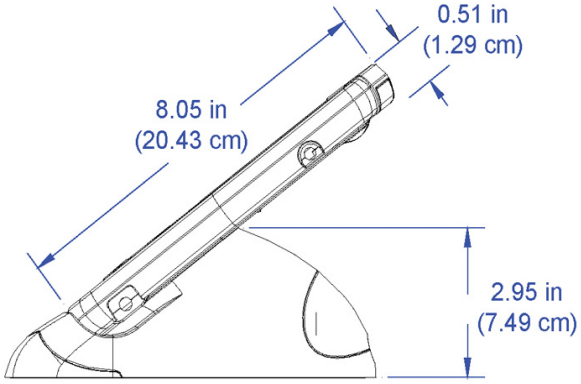

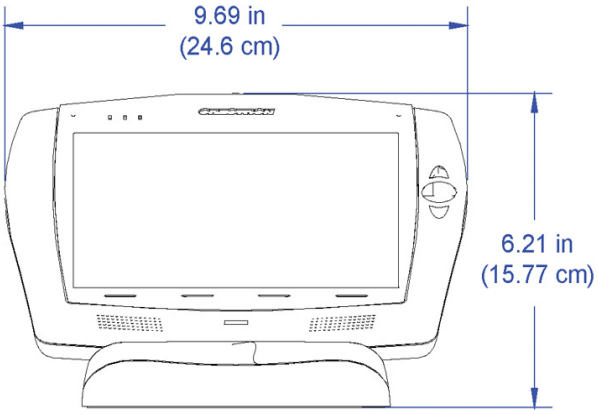

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